

**WE CLAIM:**

1        1.        A vacuum deaeration device comprising:  
2                a vacuum container; and  
3                a transmission film mounted in said vacuum container, said transmission film allowing only  
4 gas to pass and preventing liquid from being transmitted, pressure within said vacuum container  
5 being reduced to deaerate resolved gas from deaerated liquid through said transmission film, said  
6 transmission film being manufactured from a paste material mixture of a high volatility dispersion  
7 liquid composed of linear chain-like paraffin substances not containing any aromatic and olefin  
8 substances, and particle plastic substrate that is extruded and baked.

1                2.        A vacuum deaeration device in accordance with claim 1, wherein said plastic  
2 substrate is polytetrafluoroethylene.

1                3.        A vacuum deaeration device comprising:  
2                a vacuum container; and  
3                a transmission film mounted in said vacuum container, said transmission film  
4 allowing only gas to pass and preventing liquid from being transmitted, pressure with in said  
5 vacuum container being reduced to deaerate resolved gas from deaerated liquid said transmission  
6 film, said transmission film being manufactured from a paste material mixture of a dispersion  
7 liquid composed of at least two substrates selected from the group consisting of n-hexane, n-  
8 heptane, and n-octane, not containing any aromatic and olefin substances, and particle plastic  
9 substrate that is extruded and baked.